

FIG. 1

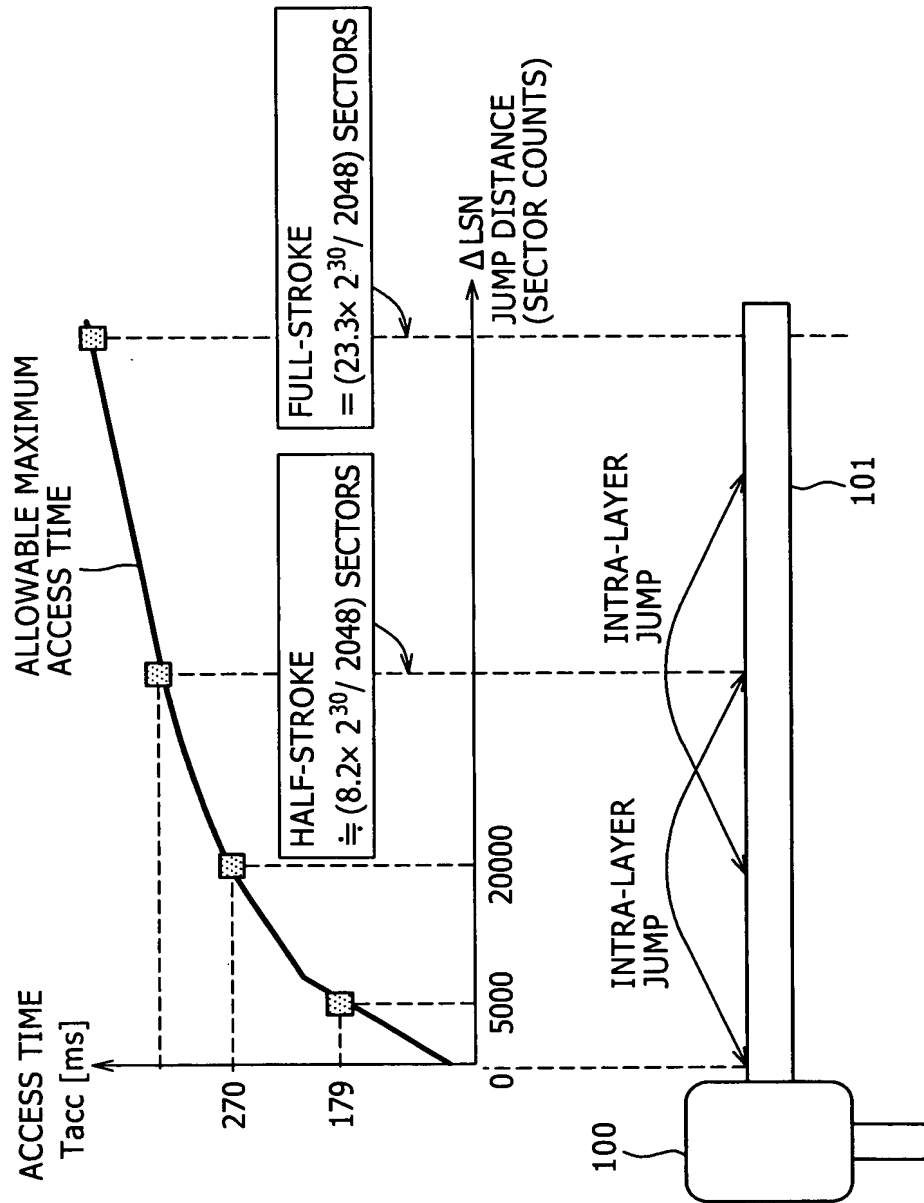


FIG. 2

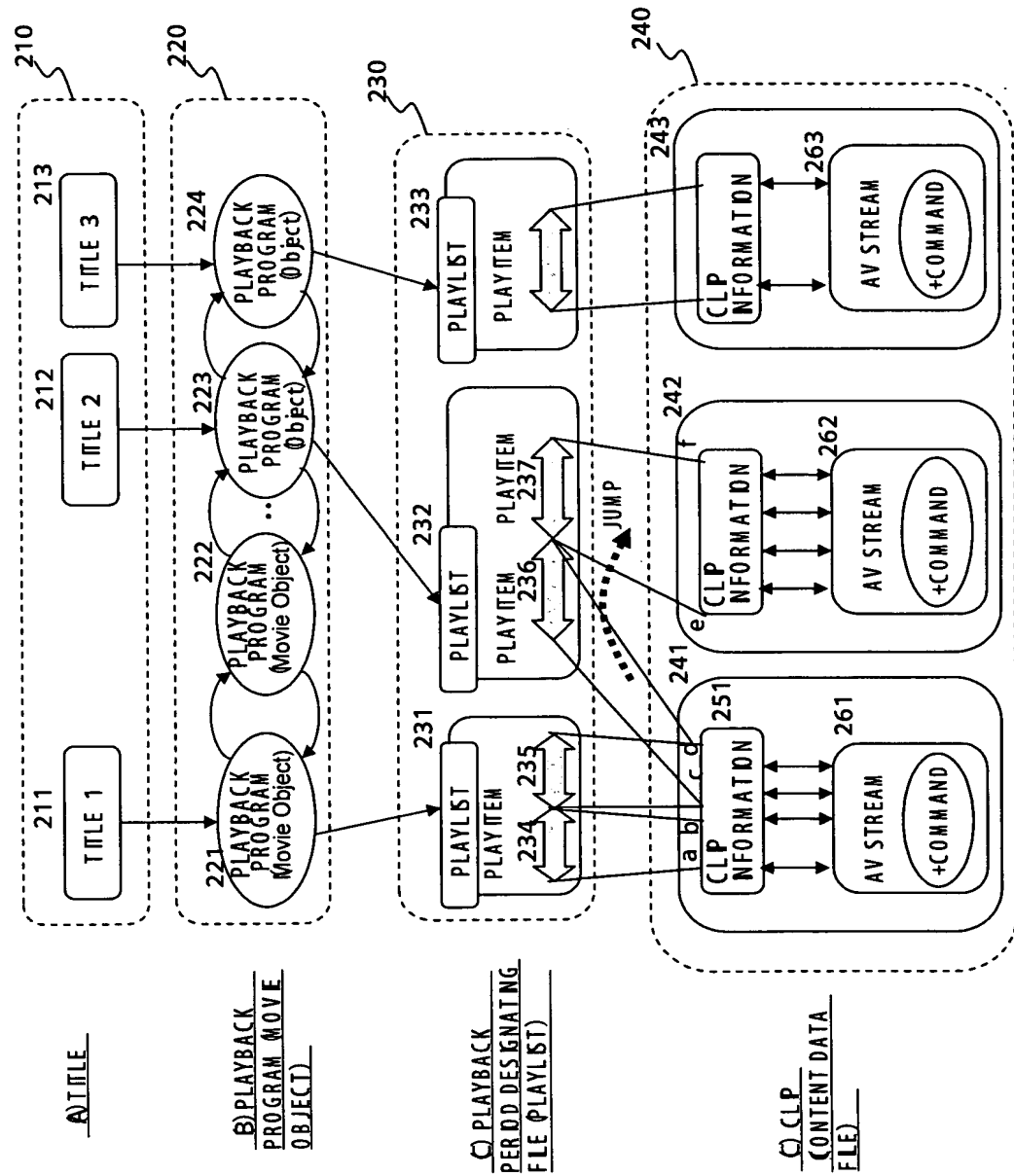
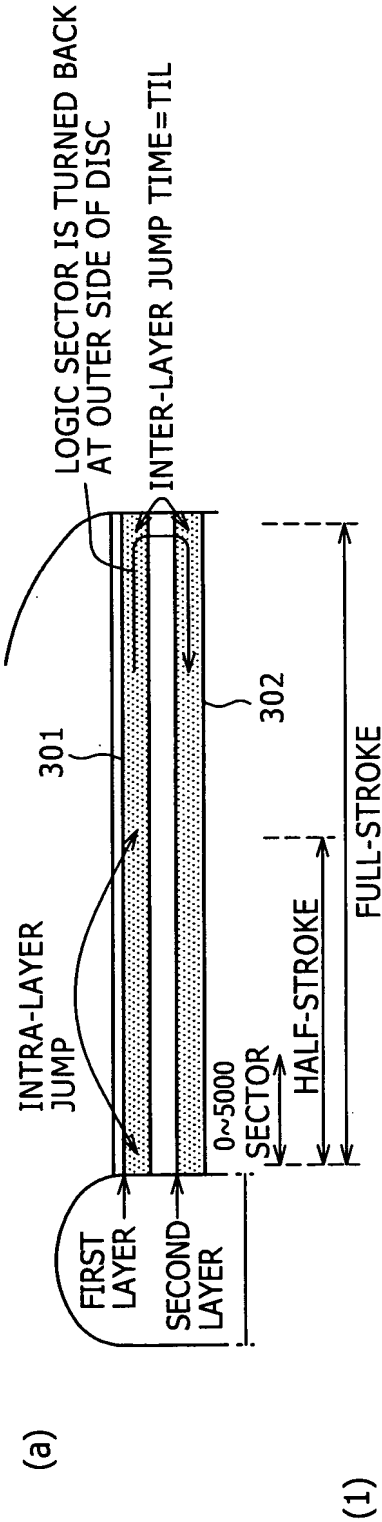


FIG. 3



(1)

INTRA-LAYER JUMP TIME T_{ACC}

JUMP DISTANCE	0-5000 SECTOR	5000-10000 SECTOR	10000-20000 SECTOR	20000-40000 SECTOR	1/10 STROKE	1/3 STROKE	HALF-STROKE	FULL-STROKE
JUMP DATA SIZE [$\times 2^{20}$ byte]	0~10	10~20	20~40	40~80	1000~	3000~	9000~	25000
INTRA-LAYER JUMP TIME T_{ACC} [ms]	179	210	270	330	650	880	990	1220

(2) INTER-LAYER JUMP TIME $T_{IL} = 360$ [ms]

(3) OVERHEAD TIME CAUSED AT READING OF ECC BLOCK BOUNDARY $T_{OH} = 20$ [ms]

TIME DATA SUPPLY IS STOPPED IN OCCURRENCE OF INTER-LAYER JUMP

$$T_{JUMP} = T_{ACC} + T_{IL} + T_{OH}$$

IN CASE OF Full-stroke INVOLVING INTER-LAYER JUMP

$$T_{JUMP} = 1220\text{ms} + 360\text{ms} + 20\text{ms} = 1600\text{ms}$$

FIG. 4

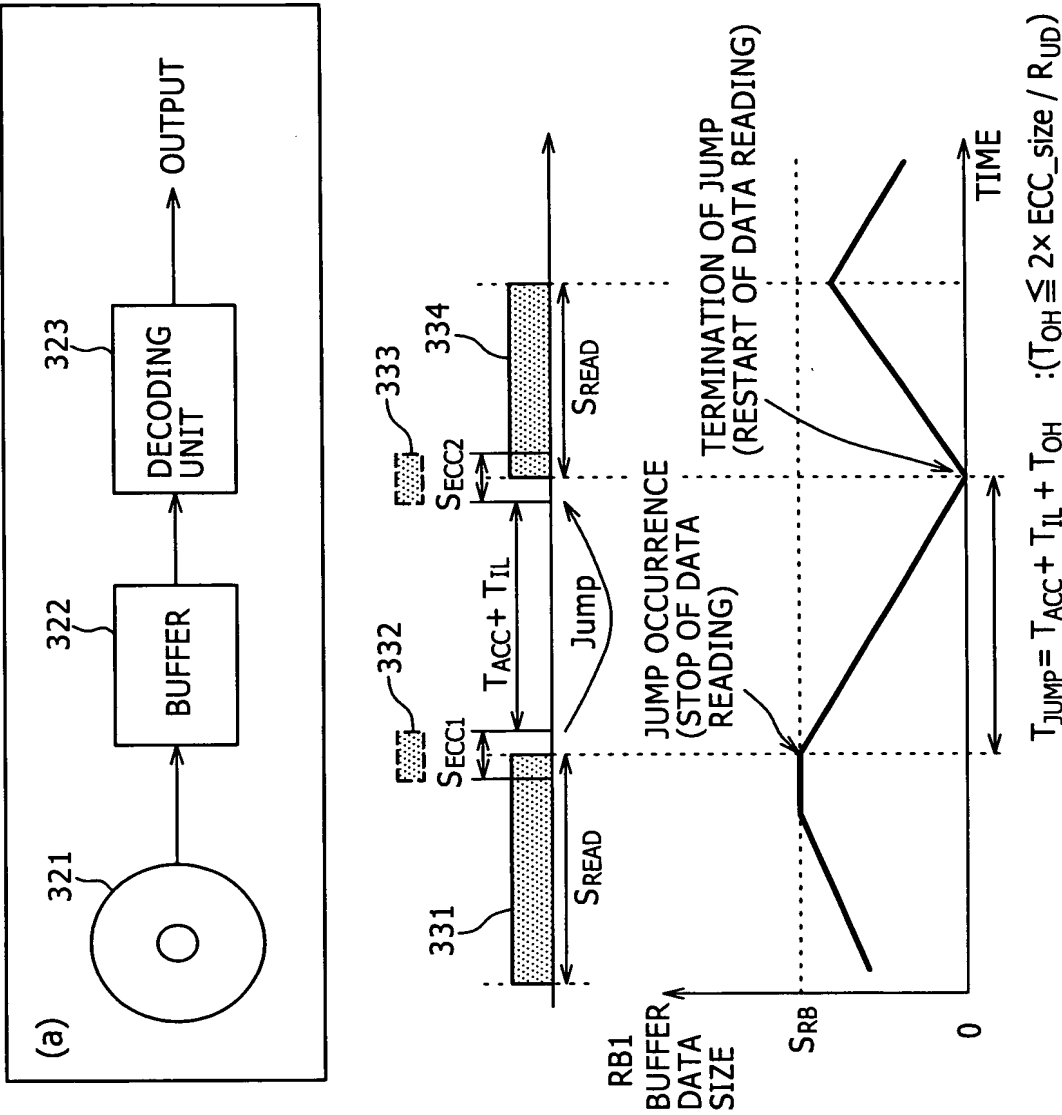


FIG. 5

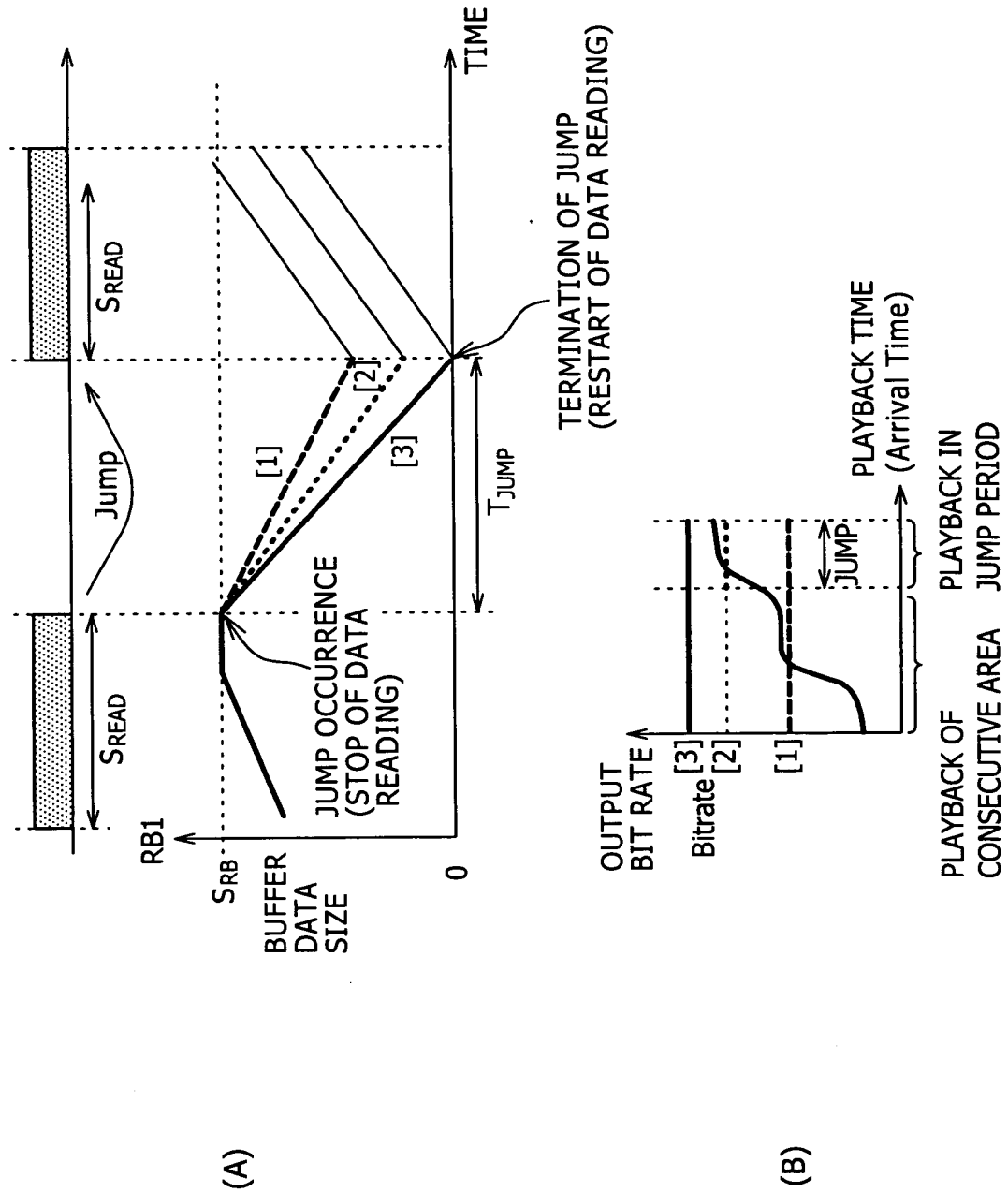


FIG. 6

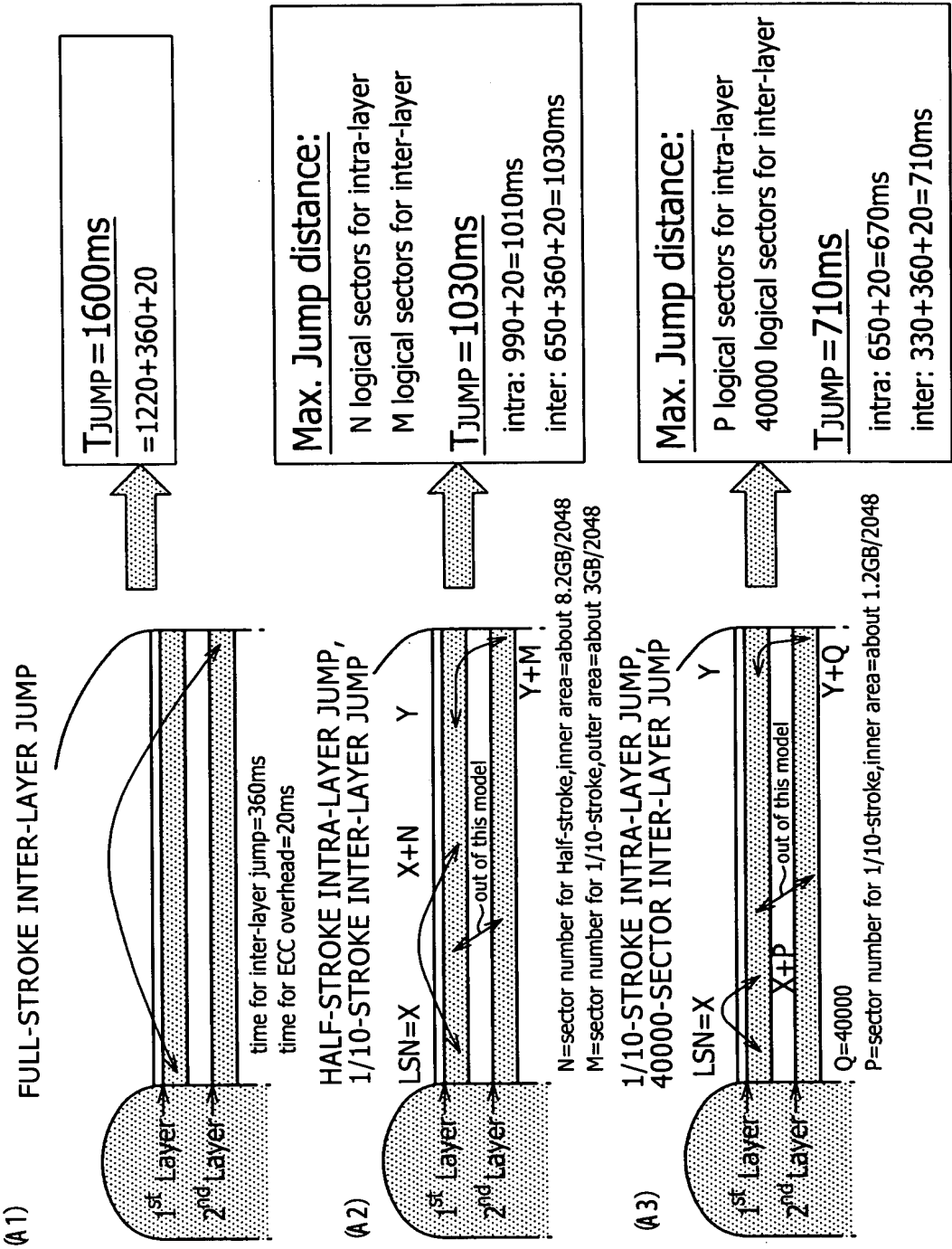


FIG. 7

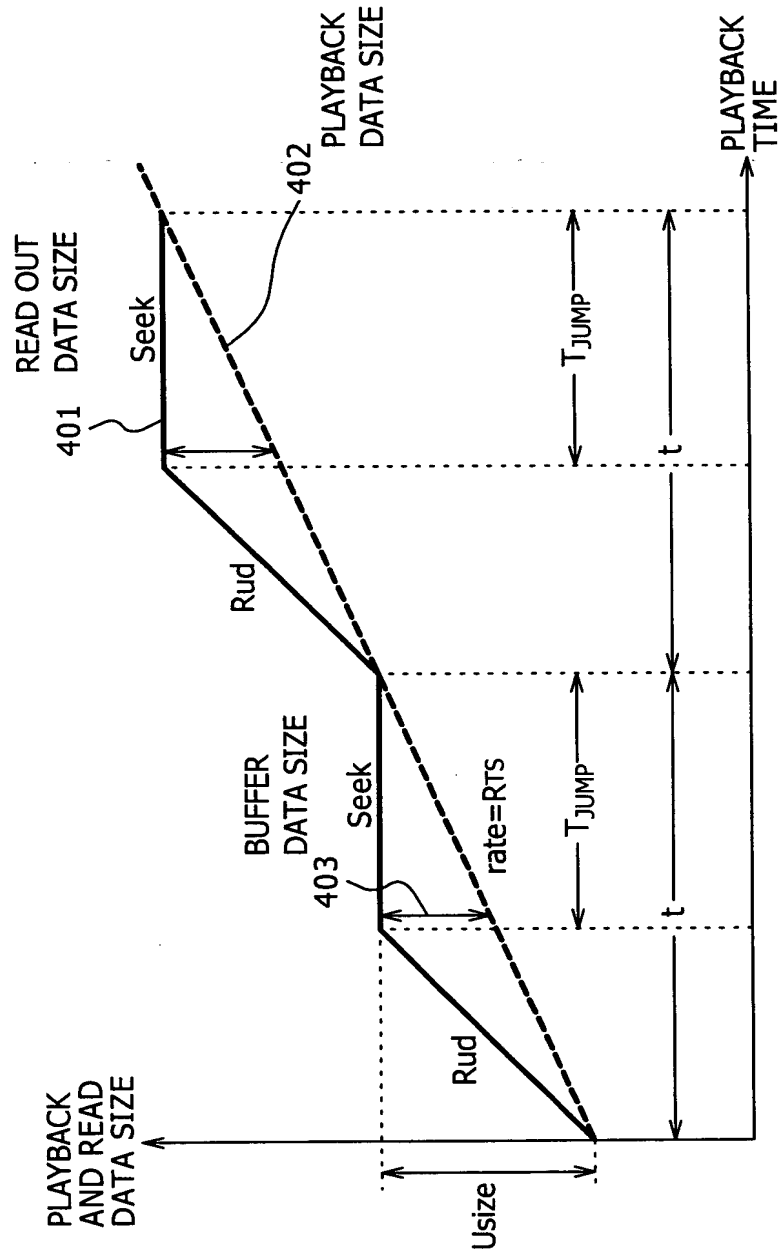
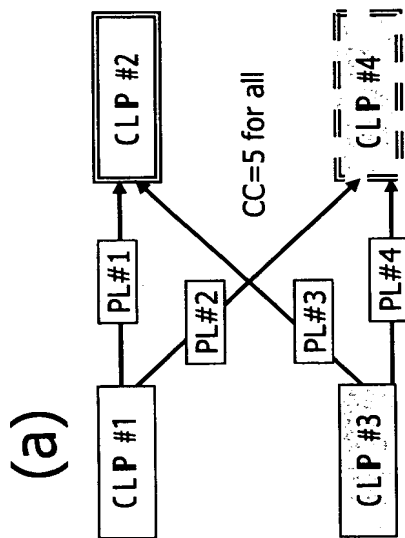


FIG. 8

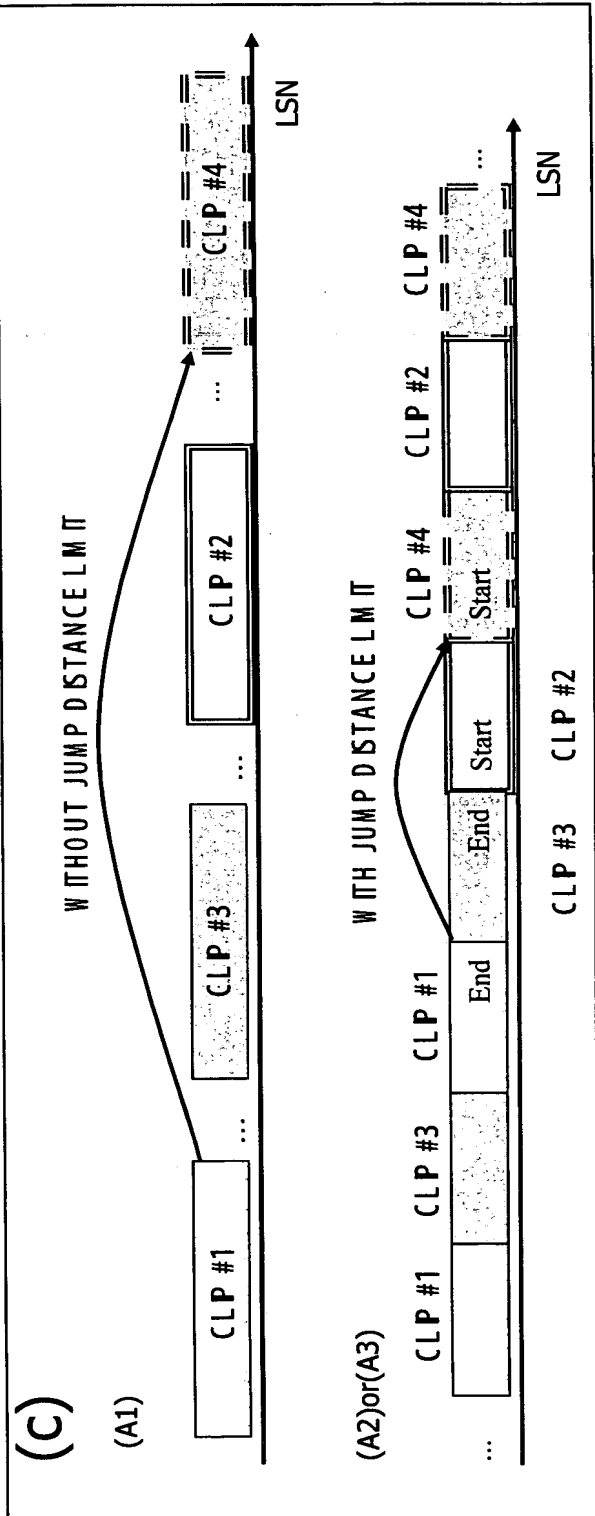
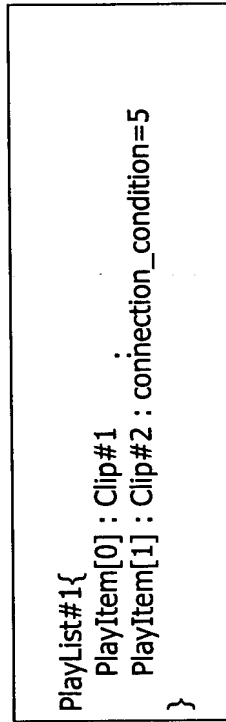
COMPARISON PARAMETERS			
MAXIMUM JUMP TIME [T _{JUMP}]	1600ms	1030ms	710ms
BUFFER SIZE [S _{RB}]	9.36 MByte(*1)	6.02 MByte	4.15 Mbyte
MINIMUM DATA ARRANGEMENT SIZE REQUIRED TO GUARANTEE CONSECUTIVE SUPPLY OF DATA BEFORE AND BEHIND JUMP [Usize]	DATA RECORDING RATE (=TS_recording_rate x 192/188)	—	—
	5 x 192/188 Mbps	1.1 MByte	0.5 Mbyte
	10 x 192/188 Mbps	2.5 MByte	1.1 Mbyte
	20 x 192/188 Mbps	6.3 MByte	2.8 Mbyte
	30 x 192/188 Mbps	13.6 MByte	6.0 Mbyte
	40 x 192/188 Mbps	32.0 MByte	14.2 Mbyte
	48 x 192/188 Mbps	101.5 MByte	45.1 MByte

(*1)MByte = 2²⁰byte

FIG. 9



(b)



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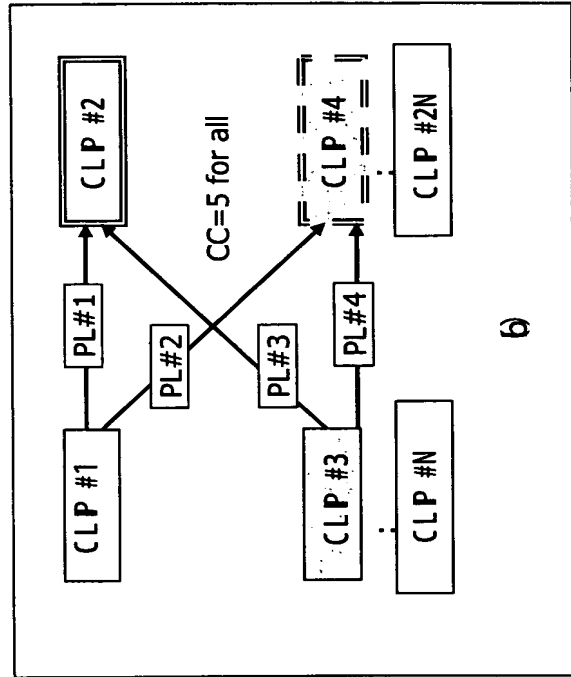
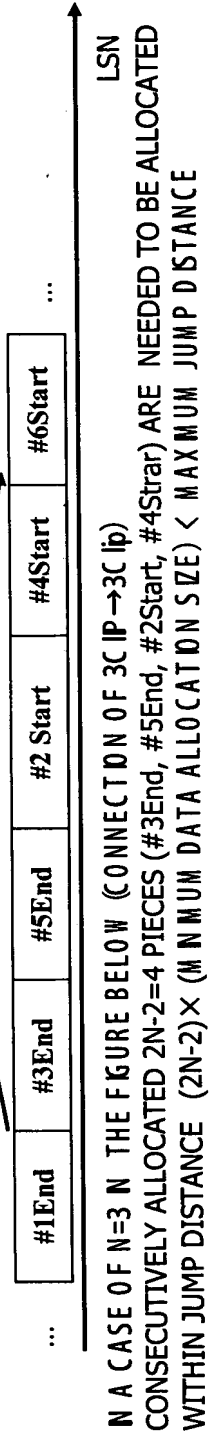
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FIG. 10

(CASE 1) MUTUAL SEAMLESS CONNECTION BETWEEN A NUMBER OF CLPS

a

WITH JUMP DISTANCE LIMIT



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FIG. 11

(CASE 2) MULTISTORY COMPOSED OF CLPS HAVING DIFFERENT LENGTHS

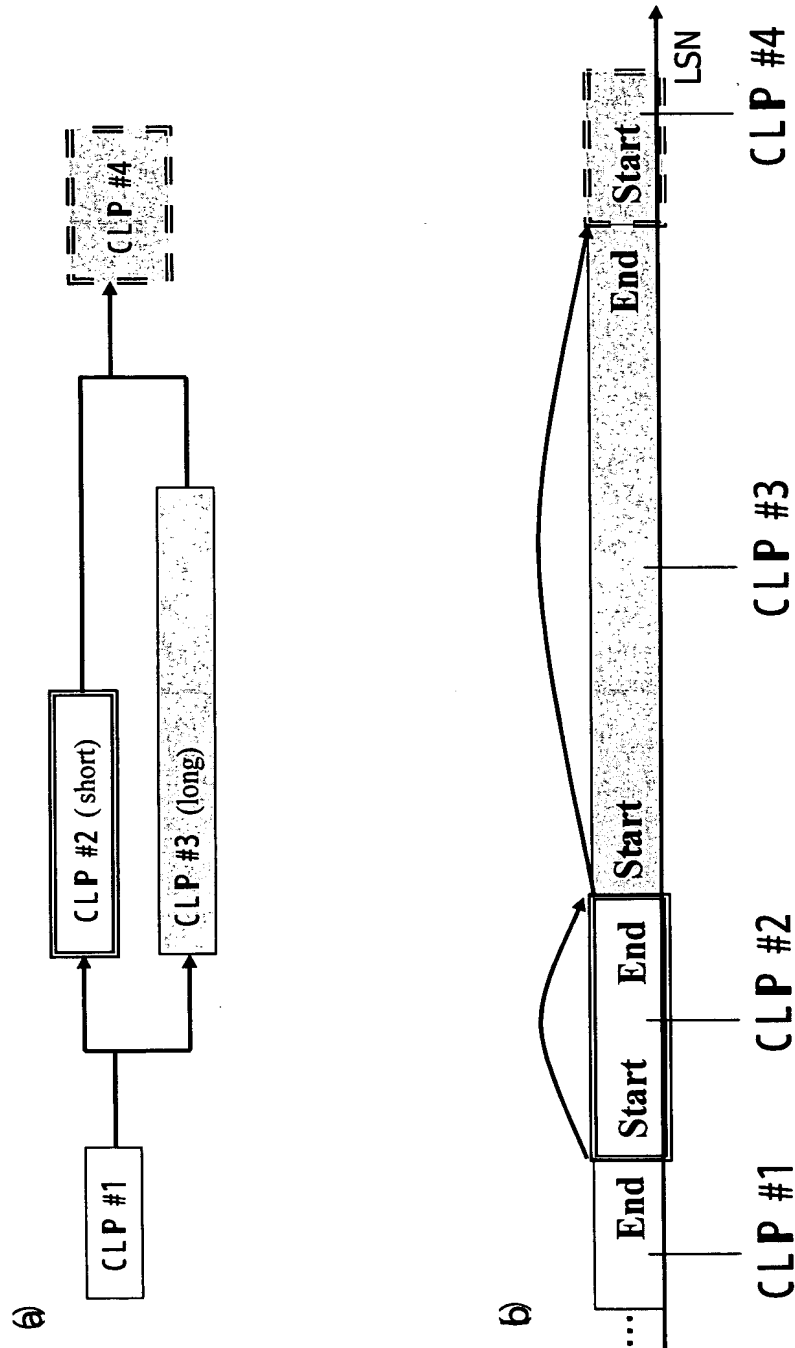


FIG. 12

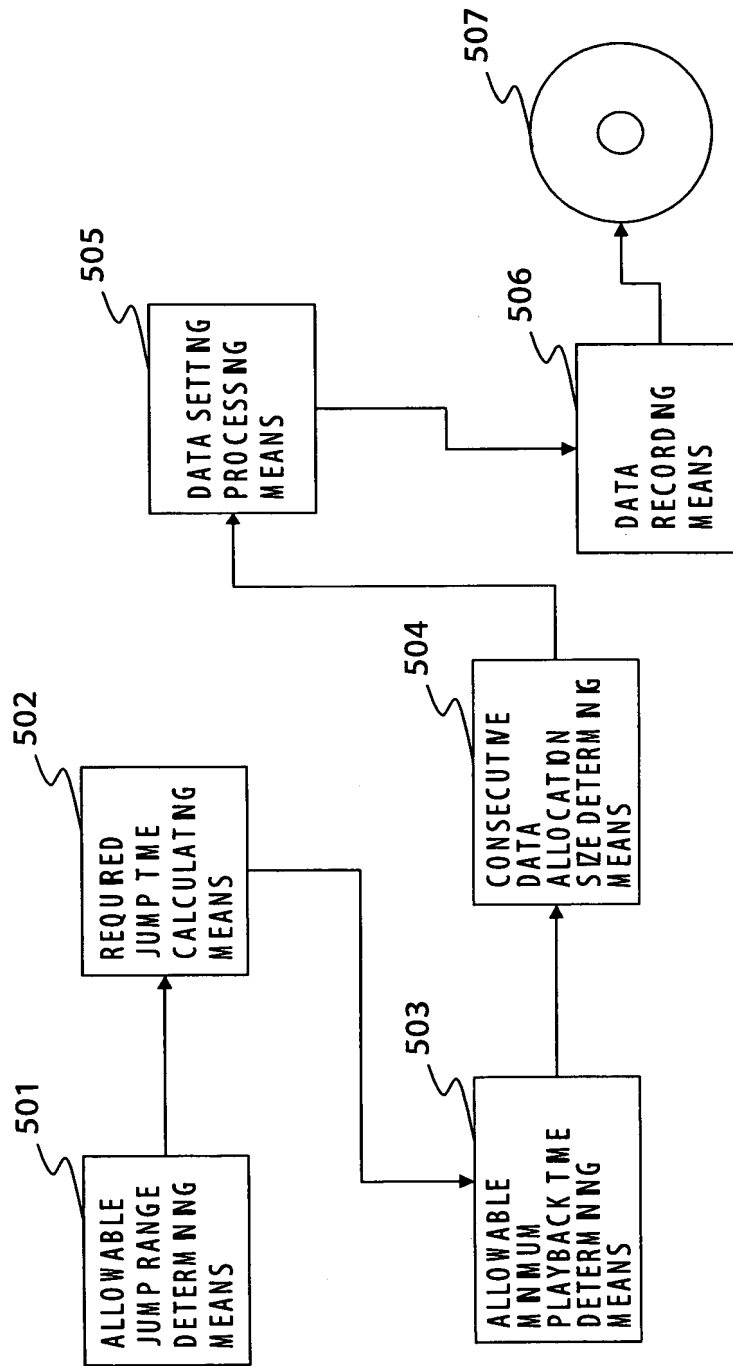


FIG. 13

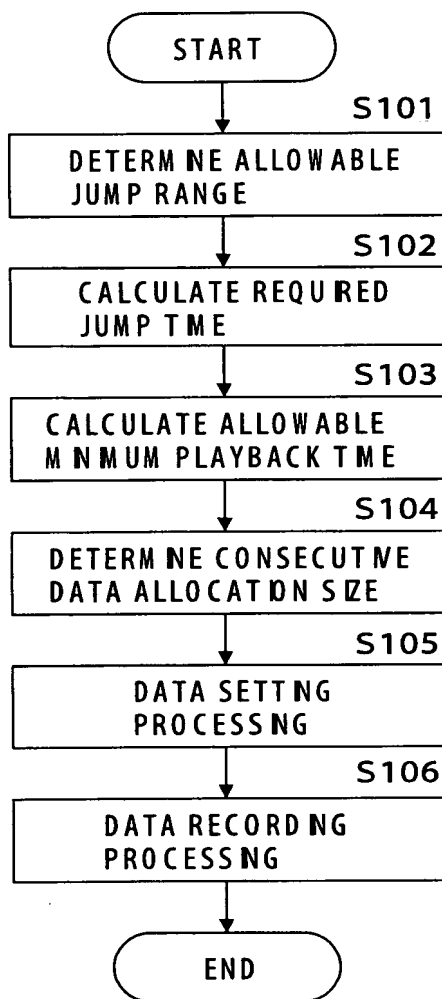


FIG. 14

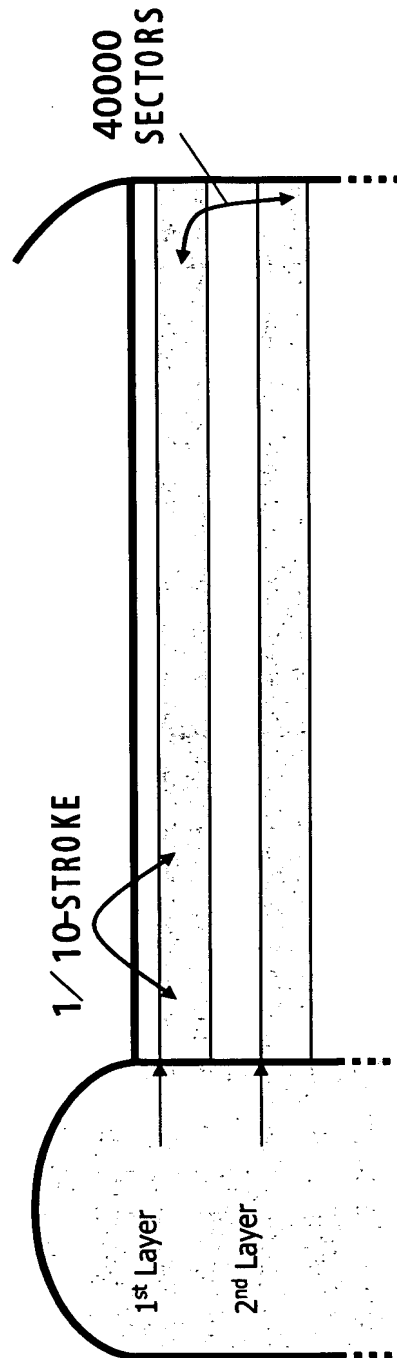


FIG. 15

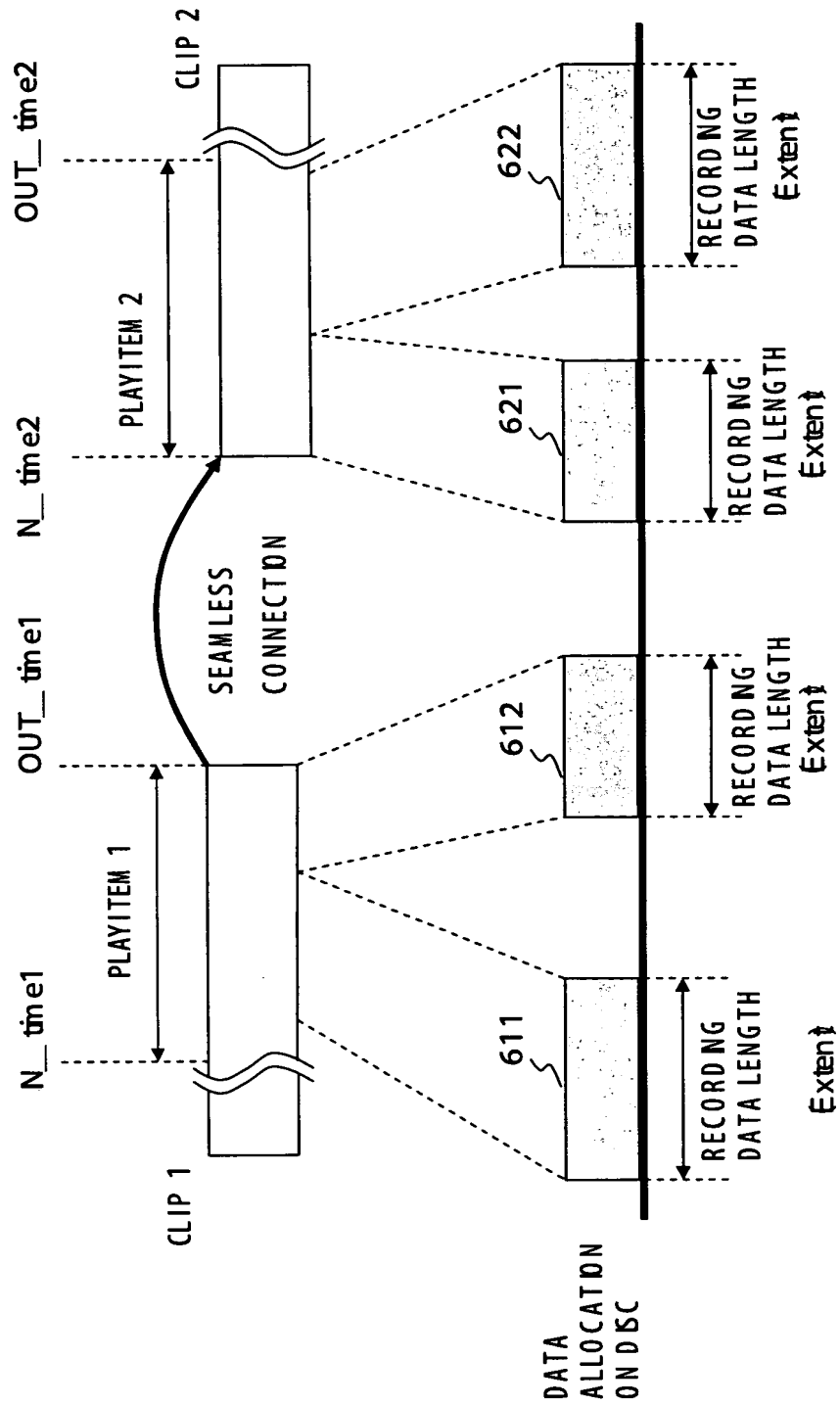


FIG. 16

TS_recording rate [RTS] bits/second	Minimum data recording size [Used] Minimum Extent Size Bytes
5×10^6	0.5×2^{20}
10×10^6	1.1×2^{20}
20×10^6	2.8×2^{20}
30×10^6	6.0×2^{20}
40×10^6	14.2×2^{20}
48×10^6	45.1×2^{20}

FIG.17

